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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/696,254	10/29/2003	Hui Lin Chang	24061.36 (2002-0939)	7076	
	590 01/05/2007		EXAMINER		
	EET, SUITE 3100	ERDEM, FAZLI		, FAZLI	
DALLAS, TX 7	ALLAS, TX 75202 ART UNIT		PAPER NUMBER		
		•	2826		
		•			
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MON	ZHTI	01/05/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

1'-			<i></i>				
1-0		Application No.	Applicant(s)				
		10/696,254	CHANG, HUI LIN				
	Office Action Summary	Examiner	Art Unit				
		Fazli Erdem	2826				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS OF THE MAILING THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)🛛	Responsive to communication(s) filed on <u>05 O</u>	<u>ctober 2006</u> .					
·	This action is FINAL. 2b) ☐ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠ Claim(s) <u>10-24,26-29 and 32-34</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>10-24,26-29 and 32-34</u> is/are allowed.							
6)🛛	6)⊠ Claim(s) <u>24,26,27 and 29</u> is/are rejected.						
·	Claim(s) <u>28</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
·							
Attachmen	t(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Pager No(s) (Mail Date							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Other:							

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DETAILED ACTION

Response to Arguments

Parents of Iyer et al. (714) prior art include carbon nitride layers. Parent 10/741417 includes carbon nitride layers in paragraphs 12, 13, 40, 57 and 58 and in claims 9, 28 and 29. Parent 10/327467 includes carbon nitride layers in claims 10, 42 and 43.

Allowable Subject Matter

- 1. Claims 10-23 and 32-34 allowed.
- 2. Claim 28 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 24, 26, 27 and 29 rejected under 35 U.S.C. 102(e) as being anticipated by Iyer et al. (2005/0255714).

Regarding Claim 24, Iyer et al. disclose a method for silicon nitride chemical vapor deposition where in Fig. 4, plurality of doped regions 432 formed over substrate 430, plurality of isolation regions 433 and 440 each proximate a junction of adjacent ones of

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the plurality of doped regions wherein at least a portion of the plurality of isolation regions 433 and 440 comprises carbon nitride.

Regarding Claim 26, the two doped regions labeled as 432 are oppositely doped.

Regarding Claim 27, isolation region 433 is a field oxide region.

Regarding Claim 29, isolation regions 433 and 440 are comprised of polycrystalline carbon nitride.

Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The

examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

FE December 24, 2006

EVAN PERT PRIMARY EXAMINER